Guanosine Modifications used in the study

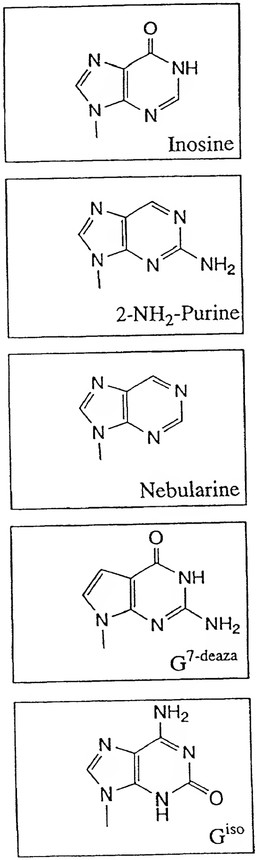

FIG. 1A

5′-NNNNNX1X2CGX3X4NNNNN-3′.

Abasic (1', 2'-deoxyribose)

Oligo **91-3** : X_1 = R, X_2 = A, X_3 = T, X_4 = T

Oligo **91-4**: X_2 = R, X_1 = G, X_3 = T, X_4 = T

R =

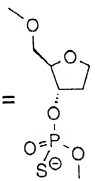

FIG. 1B-1

5′-NNNNNX1X2<u>CG</u>X3X4NNNNN-3′.

Abasic (1,3-propanediol)

Oligo **109-4** : X_1 = R, X_2 = A, X_3 = T, X_4 = T

R =

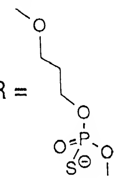

FIG. 1B-2

5′-NNNNNX1X2CGX3X4NNNNN-3′.

3-Nitropyrrole

Oligo **105-4** : X_1 = R, X_2 = A, X_3 = T, X_4 = T

Oligo **105-3**: X_2 = R, X_1 = G, X_3 = T, X_4 = T

R =

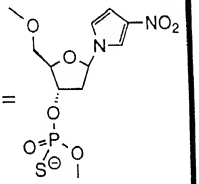

FIG. 1B-3

5′-NNNNNX1X2<u>CG</u>X3X4NNNNN-3′.

5-Nitroindole

Oligo **107-4** : X_1 = R, X_2 = A, X_3 = T, X_4 = T

Oligo **107-7**: X_4 = R, X_1 = G, X_2 = A, X_3 = T

R =

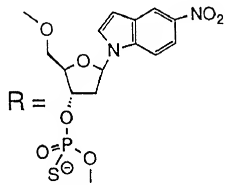

FIG. 1B-4

1',2'-Dideoxyribose Substitution

HYB No.	Sequences and Modification (5'-3')	Batch No.
HYB1158	CTATCTGACGTTCTCTGT	D7-131-1
HYB1160	CTAXXTGACGTTCTCTGT	D7-131-12
HYB1161	CTATCTGAXGTTCTCTGT	D7-131-13

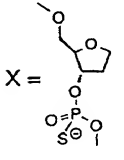

FIG. 2A

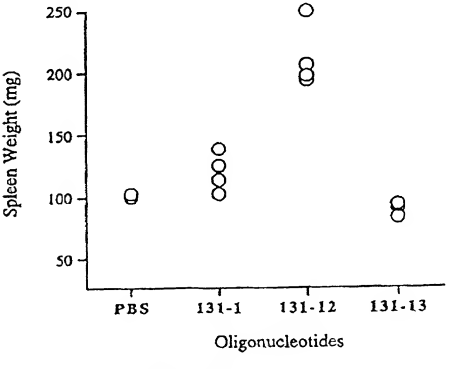

FIG. 2B

1',2'-Dideoxyribose Substitution

HYB No.	Sequences and Modification (5'-3')	Batch No.
HYB1159	CCTACTAGCGTTCTCATC	D7-133-1
HYB1162	CCTXXTAGCGTTCTCATC	D7-133-12
HYB1163	CCTACTAGXGTTCTCATC	D7-133-13

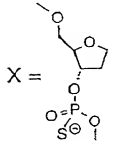

FIG. 3A

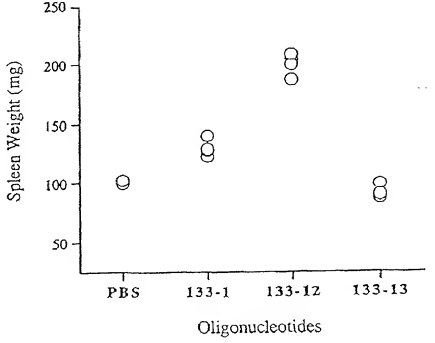

FIG. 3B